

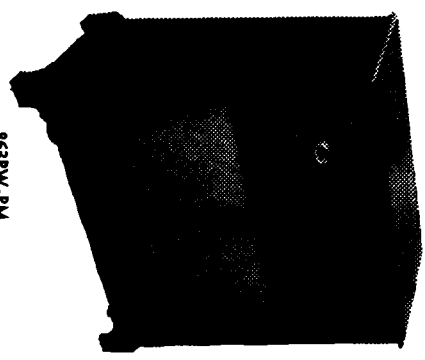
NOTES:  
 RANGE SWITCH SHOWN IN PHONO POSITION  
 \* F - INDICATES SWITCH ELEMENTS ON FRONT SIDE OF WAFER.  
 \* R - INDICATES SWITCH ELEMENTS ON REAR SIDE OF WAFER.

IDENTIFICATION TABLE

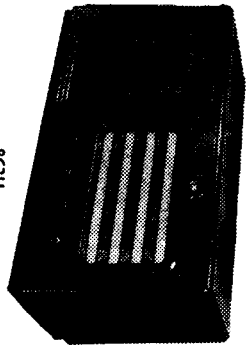
Model	Chassis	Cabinet	Speaker	Phono Equip.
863PW	02100	02093	48997	198992 25 Cycles
863PM	02100	02189	48997	148993 60 Cycles
863H	02100	02091	48995	None

**SPECIFICATIONS:**  
 Power Input Rating ..... 65 Watts  
 Input Power Frequency ..... 25-60 Cycle  
 Intermediate Frequency ..... 455 K.C.  
 Speaker Voice Coil Impedance ..... 6-8 Ohms at 400 Cycles  
 Power Output ..... Maximum 8 Watts: 10% Distortion 4 Watts  
 Voltage Rating ..... 105, 125 Volts  
 Type of Circuit ..... Superheterodyne  
 Tuning Range ..... "A" Band 535 to 1620 K.C.  
 "B" Band 4.5 to 9.75 Mcs.  
 "C" Band 11.7 to 15.50 Mcs.

1948-49



863PW-PM



863H

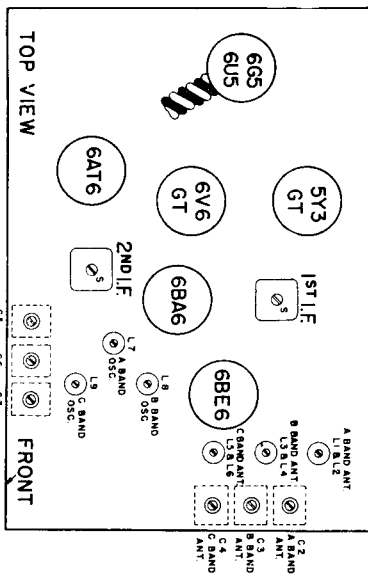
**IF = 455 K.C.**

**AC MODEL**

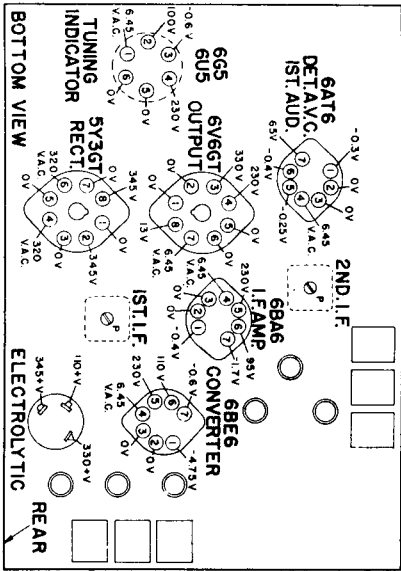
**ALIGNMENT DATA  
 ETC ON SHEET  
 98**

**863**

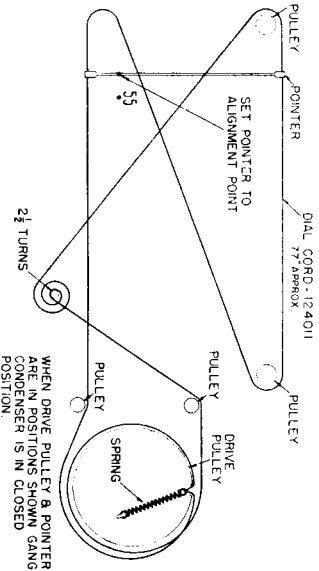
TUBE LAYOUT AND ALIGNMENT TRIMMER LOCATIONS



VOLTAGE CHART



DIALCORD ARRANGEMENT



DIAL CORD ARRANGEMENT (VIEWED FROM FRONT)

ALIGNMENT PROCEDURE 863

Band and Pointer Setting	Generator Setting	Input and Dummy	Output	Trimmer adjustment and notes.
Broadcast Low End of Dial	455 kc.	.1 mfd capacitor pin No. 1 of 6B6 tube	Output meter across voice coil	Adjust iron cores of 2nd I.F. L12 and L13 for maximum output.
"	"	.1 mfd capacitor pin No. 7 of 6BE6 tube	"	1. Adjust iron cores of 1st I.F. L10 and L11 for maximum output. 2. Repeat bottom core L13 of first I.F. transformer to obtain maximum overall sensitivity and correct tracking. Do not adjust any other I.F. cores after this adjustment.
Set pointer to calibration marks on dial with gang fully meshed.				
A Band 1500 kc.	1500 kc. 30% modulated.		Output meter across voice coil	1. Adjust B.C. oscillator trimmer capacitor C5 for maximum output and correct calibration. 2. Adjust antenna trimmer C2 for maximum output, rocking gang for correct peak. 3. Adjust B.C. oscillator iron core L7 for maximum output and correct calibration. 4. Adjust antenna coil iron core L2 for maximum output, rocking gang for correct peak. 5. Repeat 1, 2, 3, 4 until no further improvement is noted.
A Band 600 kc.	600 kc. 30% modulated.	Standard IRE dummy antenna or 200 mmf. capacitor in series to Ant. and Grid. terminal loop or loop substitute must be connected	"	

R.F. ALIGNMENT "A" BAND

- Adjust B.C. oscillator trimmer capacitor C5 for maximum output and correct calibration.
- Adjust antenna trimmer C2 for maximum output, rocking gang for correct peak.
- Adjust B.C. oscillator iron core L7 for maximum output and correct calibration.
- Adjust antenna coil iron core L2 for maximum output, rocking gang for correct peak.
- Repeat 1, 2, 3, 4 until no further improvement is noted.

R.F. ALIGNMENT "B" BAND

- Adjust oscillator trimmer capacitor C6 for maximum output and correct calibration.
- Adjust antenna trimmer capacitor C3 for maximum output, rocking gang for correct peak.
- Adjust B band oscillator iron core L8 for maximum output and correct calibration.
- Adjust antenna coil iron core L4 for maximum output, rocking gang for correct peak.
- Repeat 1, 2, 3 and 4 until no further improvement is noted.

R.F. ALIGNMENT "C" BAND

- Adjust oscillator trimmer capacitor C7 for maximum output and correct calibration.
- Adjust antenna trimmer C4 for maximum output, rocking gang for correct peak.
- Adjust "C" band oscillator iron core L9 for maximum output and correct calibration.
- Adjust antenna coil iron core L6 for maximum output, rocking gang for correct peak.
- Repeat 1, 2, 3 and 4 until no further improvement is noted.

IF = 455 KC.  
1948-49

AC MODEL

863

CIRCUIT DATA ON SHEET 92